

SRScales®

by **SR**® Instruments, Inc.

Model SRV947R



Portable Platform Scale

Operating and Service Manual

Serial Numbers: 1000+

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PACKING CHECKLIST – Model SRV947R

Portable Platform Scale

√	DESCRIPTION	QUANTITY
	PORTABLE PLATFORM SCALE	1 ea
	REMOTE DISPLAY	1 ea
	DISPLAY EXTENSION CABLE	1 ea
	AA 1.5-VOLT ALKALINE BATTERIES	6 ea
	CALIBRATION CERTIFICATE	1 ea
	WARRANTY CARD	1 ea
	MANUAL	1 ea

ASSEMBLY



Figure 1: Assembled SRV947R

To assemble follow steps below:

STEP 1: Turn scale over and connect extension cable to connector on frame assembly.

STEP 2: Connect other end of extension cable to display coil cable.

To install included six (6) AA 1.5-volt alkaline batteries, follow steps below:

STEP 1: Unlatch tab on the Battery Compartment cover on bottom of scale (figure 2).

STEP 2: Insert batteries according to instructions on the Battery Compartment holder.

STEP 3: Replace Battery Compartment cover.



Figure 2: Battery Compartment

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REPLACEMENT PARTS AND ACCESSORIES

Part #	Description
CA8467	Remote Display Label
SE8507	Extension Cable

SYSTEM DESCRIPTION AND INTENDED USE

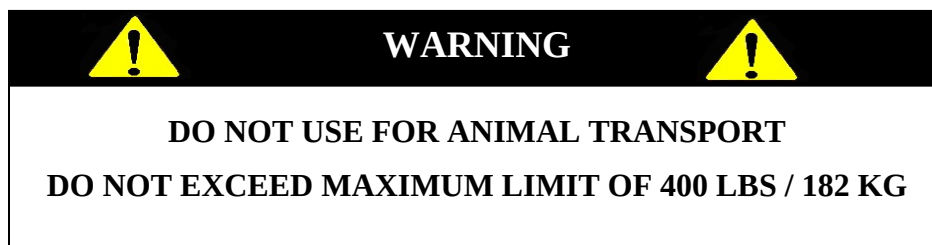
SYSTEM DESCRIPTION

The SRV947R Portable Platform Scale is a low profile design, 2 in. height, which allows the animal easy step-on and off access. The SRV947R Scale can be used in a fixed location or as a portable scale. The Scale employs the latest in microprocessor and load cell technology to provide accurate and repeatable weight data. Six (6) identically matched transducers are strategically placed to ensure an accurate representation of the patient's weight.

The patient's weight is displayed on an LCD screen. With a push of a button, weight data may be viewed in either pounds or kilograms.

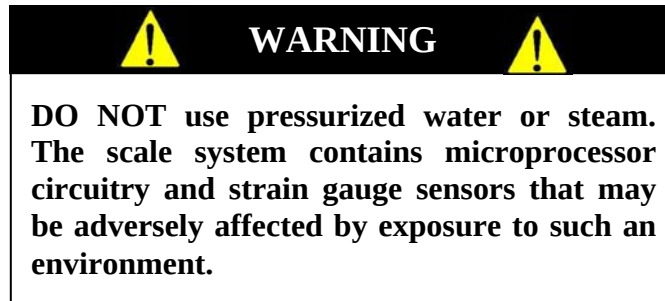
INTENDED USE

The SRV947R Portable Platform Scale is a lightweight portable scale designed for use as a weighing system for animals not exceeding 400 pounds or 182 kilograms, gross weight. Please read the following warnings to avoid injury to the animal or attendant.



MAINTENANCE and CLEANING

The SRV947R Portable Platform Scale is made with a powder-coated aluminum platform. Exercise caution when cleaning the display window as it is made of a clear plastic and can be scratched by abrasive cleaners. Mild soap and water is recommended for general cleaning and disinfecting.



STORAGE and TRANSPORTATION

STORAGE

If storing this equipment for periods longer than three (3) months, remove the batteries. To maintain proper operation of this instrumentation, storage and transport conditions should not vary outside the following conditions: Relative Humidity 0% to 85%, Ambient Temperature 14°F to 122°F (-10°C to +50°C).

TRANSPORTATION

The SRV947R Portable Platform Scale has four (4) recessed handles on the underside of the scale for easy portability.

SPECIFICATIONS

MAXIMUM WEIGHT CAPACITY	400 lb / 182 kg
PLATFORM SIZE	24 in x 48 in x 2 in (61 cm x 122 cm x 5 cm)
DISPLAY TYPE	1.0" LCD display with 5 active digits
DISPLAY RESOLUTION	0.2 lb / 0.1 kg
ACCURACY	0.2% +/- 2 digits of displayed resolution for calibrated range
AUTO ZERO	One button operation
AUTO POWER DOWN	Approximately 120 seconds
AVERAGING	Automatic digital filter
POWER SUPPLY	Six (6) AA 1.5 volt alkaline batteries
CALIBRATION	Calibration is traceable to NIST standards
OPERATING CONDITIONS	Normal operating conditions for this product: Ambient Temperature Range: 68°F to 85°F (20°C to 30°C), Relative Humidity Range: 0%-85%. Avoid exposure to high-pressure water or steam.
TRANSPORT and STORAGE	Storage and transport conditions should not vary outside the following conditions: Relative Humidity 0% to 85%, Ambient Temperature 14°F to 122°F (-10°C to +50°C). Remove batteries if storing longer than three (3) months.

BUTTON FUNCTIONS

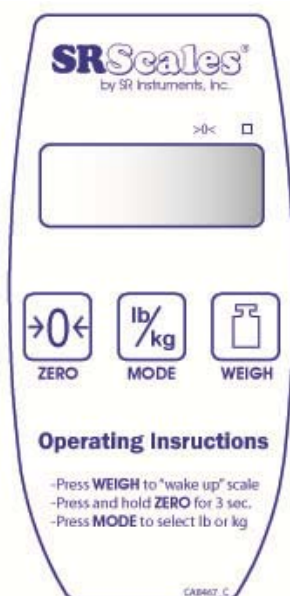


Figure 3: Button Display

- ZERO** The “**ZERO**” button is used to turn the scale on or off. Press and hold for 3 seconds to zero the display.
- MODE** The “**MODE**” button is used to select pounds or kilograms.
- WEIGH** The “**WEIGH**” button is used to “wake up” the scale prior to weighing the patient.

BASIC SYSTEM OPERATION

TURNING SYSTEM ON

Make sure the scale is free and clear of any obstructions and all six feet are touching a level surface. Press the “**ZERO**” button and hold for 3 seconds. The display will read “**ZERO**” then “- - - -” and display “**0.0**” when system is ready for weighing.

Continued next page

BASIC SYSTEM OPERATION cont'd

UNIT

Press the **“MODE”** button to toggle between pounds or kilograms. The system will remain in the same mode as last used unless manually changed. (Example: If the last weight displayed was in kilograms and the scale shuts down, the weight mode will be in kilograms when the scale is turned back on.)

WEIGH

The **“WEIGH”** button is used to “wake up” the scale prior to weighing the patient.

BATTERY REPLACEMENT

The Portable Platform Scale contains six (6) AA 1.5-volt alkaline batteries. The low battery indicator is displayed when the battery power is insufficient to power the scale.

Refer to Assembly Instructions (Figure 2).

CALIBRATION



IMPORTANT



CALIBRATION CHECK Qualified service personnel only should perform this procedure. Load cells have no user serviceable components and should not be tampered with for any reason. Re-calibration is generally not required, but should be verified periodically to ensure accuracy. The recommendation for calibration check is at least once every 12 months, or as individual maintenance policy requires.

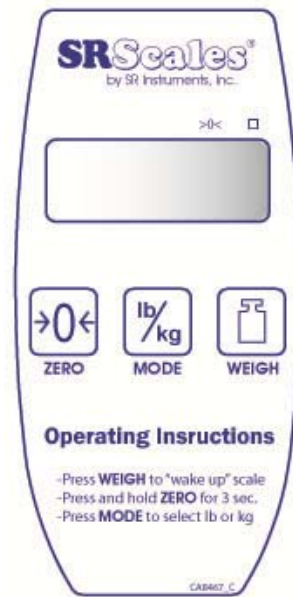


Figure 4: Button Display

NOTE: Ensure that nothing is in contact with the scale system during this procedure and that all six (6) feet are touching a level surface. Remove hands from the system when noting the displayed calibration results. (Use a known calibrated weight traceable to NIST.)

STEP 1: First, place scale platform on a flat surface and adjust scale feet so that scale is level and supported by the feet.

STEP 2: Perform a Two-Point Calibration with 400 pounds full scale according to Steps 3 – 9.

CALIBRATION con'd

STEP 3: To access all settings below, press the CAL button (S2) through the access hole in the back of the display housing.

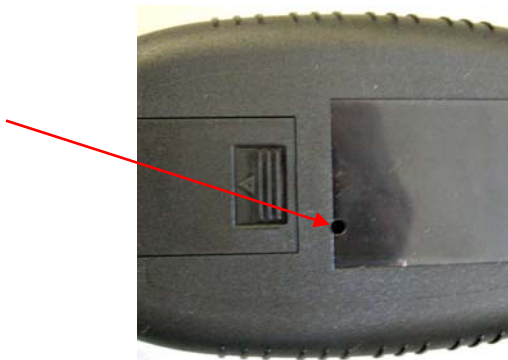


Figure 5: Calibration Button

STEP 4: The display will read “CAL”. The Right Button (WEIGH) on the front of the display housing allows you to toggle through the menus without saving any parameters. The Left Button (ZERO) on the front of the display housing permits a menu item to be selected or a parameter saved.

CAL MENU:

“data”	Displays saved calibration and model information.
“Unit”	Set display units (Lb , Kg, Both)
“SEC”	Set Auto Power Down Timer between 15 and 300 seconds.
“grAv”	Set Gravitational Acceleration in m/s^2
“FULL”	Applied calibrated mass at full scale.
“HALF”	Used with three point calibration curve. Applied calibrated mass at a second point between zero and full scale, usually at half.
“ZERO”	No calibrated weight applied.
“2 Pt”	Two- point calibration curve, zero and full scale.
“3 Pt”	Three-point calibration curve; zero, half and full scale.
“SAVE”	Saves the calibration data.
“qUIT”	Quits without saving the calibration data.

CALIBRATION con'd

STEP 5: Set Auto Power Down Timer

NOTE: Set time to 60 seconds prior to QC inspection.

- a. Select the Auto Power Down Timer from the CAL menu by pressing the Left Button when the display shows "**SEC**".
- b. The display will show four digits <0123>.
- c. Set the desired time in seconds by selecting the first digit and toggle through the digits until desired value is shown. Press the Left Button and continue the same with the remaining digits. The value can not be less than 15 or greater than 300.
- d. Press the Left Button to save or Right Button to toggle to "quit". Select "quit" by pressing the Left Button to quit without saving changes.

STEP 6: Set the Gravitational Acceleration.

NOTE: SR Instruments local gravitational setting is 9.8037.

NOTE: Setting the local gravitational acceleration, "**gLOC**", will not effect the calibration. The local gravitational acceleration, "**gLOC**", will become the calibrated gravitational acceleration, "**gCAL**" only when it recalibrated.

- a. Select the Gravitational Acceleration from the CAL menu by pressing the Left Button when the display shows "**grAv**".
- b. The display will show only the four digits to the right of the decimal point <.XXXX>.
- c. Set the local gravitational acceleration in m/s^2 by selecting the first digit and toggle through the digits until desired value is shown. Press the Left Button and continue the same with the remaining digits.
- d. Press the Left Button to save or Right Button to toggle to "quit". Select "quit" by pressing the Left Button to quit without saving changes.

STEP 7: Set the Full-Scale value.

NOTE: Full scale value is 400 pounds.

- a. Select the Full-Scale from the CAL menu by pressing the Left Button when the display shows "**FULL**".
- b. The display will show only the five digits <XXXX.X> with the thousand-place flashing <1>. Toggle to the next digit by pressing the Right Button.
- c. Set the full scale value (maximum load) in pounds by toggling to the hundred-place by pressing the Right Button. Select the hundred-place digit and toggle through the digits until desired value is shown. Press the Left Button and continue the same with the remaining digits.
- d. Press the Left Button to save or Right Button to toggle to "quit". Select "quit" by pressing the Left Button to quit without saving changes.

CALIBRATION con'd

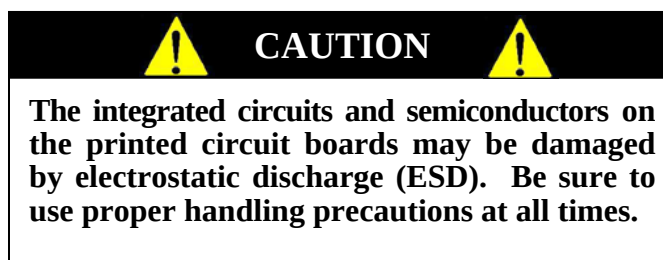
STEP 8: Calibrate the scale with Two-point calibration curve; zero and full scale.

- Select Two-point calibration curve by pressing the Left Button when the display shows “2Pt”
- Zero the scale by pressing the Left Button when the display shows “zero”.
- Set the full-scale-point by placing the calibrated mass equal to the predetermined full scale value on the scale and pressing the Left Button.
- Press the Left Button to save or Right Button to toggle to “quit”. Select “quit” by pressing the Left Button to quit without saving changes.

STEP 9: Save the parameter changes while in the CAL mode by pressing the Left Button when the display shows “SAVE”. To exit the CAL mode without saving the changes press the Left Button when the display shows “quit”.

CALIBRATION TOLERANCE FOR SRV947R

Low Limit	Applied Load	High Limit
(lb)	(lb)	(lb)
	0	
399	400	401



TROUBLESHOOTING

SYMPTOM	REASON/CORRECTIVE ACTION
Display reads LOW	Battery needs to be replaced.
Display reads LOW	Ensure scale is on a level surface. Check to make sure all four feet are touching ground and ensure that nothing is touching bottom or sides of platform.
For additional information or assistance, phone our Service Hotline: 1-800-654-6360 or e-mail: sri@srinstruments.com	

WARRANTY

TWO (2) YEAR LIMITED WARRANTY

Each **SR Scales**® system is manufactured with high quality components. SR Instruments, Inc. warrants that all new equipment will be free from defects in material or workmanship, under normal use and service, for a period of two (2) years from the date of purchase by the original purchaser. Normal wear and tear, injury by natural forces, user neglect, and purposeful destruction are not covered by this warranty. Warranty service must be performed by the factory or an authorized repair station. Service provided on equipment returned to the factory or authorized repair station includes labor to replace defective parts. Goods returned must be shipped with transportation and/or broker charges prepaid. SR Instruments, Inc.'s obligation is limited to replacement of parts that have been so returned and are disclosed to SR Instruments, Inc.'s satisfaction to be defective. The provisions of this warranty clause are in lieu of all other warranties, expressed or implied, and of all other obligations or liabilities on SR Instruments, Inc.'s part, and it neither assumes nor authorizes any other person to assume for SR Instruments, Inc. any other liabilities in connection with the sale of said articles. In no event shall SR Instruments, Inc. be liable for any subsequent or special damages. Any misuse, improper installation, or tampering, shall void this warranty.

DAMAGED SHIPMENTS

Title passes to purchaser upon delivery to Transportation Company. Any claims for shortage or damage should be filed with the delivery carrier by purchaser.

RETURN POLICY

All products being returned to SR Instruments, Inc. require a Return Goods Authorization number (RGA). To receive an RGA, call our Technical Service Team at 716-693-5977 or toll-free in the USA and Canada at 800-654-6360.

When inquiry is made, please supply model and serial numbers, purchase order, if the scale was bought on contract, and reason for return.

Generally, deleted, damaged, and outdated merchandise will not be accepted for credit. A minimum restocking charge of 15% will be assessed on return of current merchandise.

All returns are to be shipped FREIGHT PREPAID to: SR Instruments, Inc., 600 Young Street, Tonawanda, NY 14150.

RESTOCKING FEE

- **15% fee** for any scale that has been opened and used
- **10% fee** for any scale returned that has been ordered incorrectly or refused delivery with no model change
- **5% fee** if an error in ordering has been made and a different model exchanged
- **No fees** will be charged if the scale is returned because of an error on the part of SR Instruments, Inc.
- **No returns** accepted after 60 days.

NOTES



**Precision & Technology in
Perfect Balance®**